

WHAT IS CLAIMED IS:

1. A door lock device comprising:
  - a latch mechanism provided at a vehicle door and engageable with or
  - 5 disengageable from a striker provided at a vehicle body;
  - a lift lever for operating the latch mechanism from an engaged state in which the latch mechanism engages with the striker to a disengaged state in which the latch mechanism disengages from the striker;
  - an open lever operated by an operation of a door opening mechanism
  - 10 provided at the vehicle door;
  - a lock lever movable between an unlocked position and a locked position by an operation of a door locking/unlocking member provided at the vehicle door;
  - an open member operated with the lock lever and movable between an
  - 15 unlocked position and a locked position; the open member including a link member having an operation input portion receiving an operation force from the open lever and an acting portion engageable with the lift lever, and an elastic member connecting the link member and the lock lever;
  - wherein when the open member is in the unlocked position, the open
  - 20 member engages with the lift lever by an operation of the open lever in one direction thereby allowing an operation of the lift lever, and when the open member is in the locked position, the open member idly engages with the lift lever by the operation of the open lever and then becomes engaged with the

lift lever in the other direction thereby prohibiting the operation of the lift lever when the open member is switched to the unlocked position from the locked position.

- 5     2. A door lock device according to claim 1, further comprising:
  - the door opening mechanism including an inside handle provided at an inner side of the vehicle door;
  - a cancel lever operated together with the open lever to shift the open member to the unlocked position when the inside handle is operated under
  - 10    the open member being in the locked position;
  - the acting portion engaging with the lift lever in the one direction; and
  - a transmission member for transmitting an operation force of the link member to the lock lever.
  
- 15    3. A door lock device according to claim 1, further comprising:
  - the door opening mechanism including an inside handle provided at an inner side of the vehicle door;
  - a cancel lever operated together with the open lever to shift the open member to the unlocked position when the inside handle is operated under
  - 20    the open member being in the locked position;
  - the acting portion engaging with the lift lever in the other direction; and
  - a transmission member for transmitting an operation force of the link member to the lock lever.

4. A door lock device according to claim 2, further comprising a pair of casings, wherein the link member includes an open link arranged between the pair of casings and having a connecting portion, a first flange formed to face to the other one of the pair of casings and extending in a vertical direction of the vehicle, a second flange bent from the first flange so as to be perpendicular thereto, a third flange formed to face to one of the pair of casings, an engaging pin, and a hole connected to a boss formed at the cancel lever.

10

5. A door lock device according to claim 4, wherein the elastic member includes a spring having one end portion engaging with the open link and an U-shaped portion extending in the vertical direction of the vehicle.

15 6. A door lock device according to claim 5, wherein the transmission member includes an inside locking lever arranged between the pair of casings and having a connecting hole connected to the door locking/unlocking member provided at the inner side of the vehicle door, a connecting elongated hole connected to a connecting pin formed at the lock lever, and a bending flange extending toward the other one of the casings and engageable with the third flange of the open link.

7. A door lock device according to claim 6, wherein the operation force input

portion includes the connecting portion connected to a connecting hole formed at the open lever.

8. A door lock device according to claim 7, wherein the acting portion  
5 includes the first flange.

9. A door lock device according to claim 3, further comprising a pair of casings, wherein the link member includes an open link arranged between the pair of casings and having a connecting portion, a first flange formed to  
10 face to the other one of the pair of casings and extending in a vertical direction of the vehicle, a second flange bent from the first flange so as to be perpendicular thereto, a third flange formed to face to one of the pair of casings, an engaging pin, and a hole connected to a boss formed at the cancel lever.

15

10. A door lock device according to claim 9, wherein the elastic member includes a spring having one end portion engaging with the open link and an U-shaped portion extending in the vertical direction of the vehicle.

20 11. A door lock device according to claim 10, wherein the transmission member includes an inside locking lever arranged between the pair of casings and having a connecting hole connected to the door locking/unlocking member provided at the inner side of the vehicle door, a

connecting elongated hole connected to a connecting pin formed at the lock lever, and a bending flange extending toward the other one of the casings and engageable with the third flange of the open link.

- 5     12. A door lock device according to claim 11, wherein the operation force input portion includes the connecting portion connected to a connecting hole formed at the open lever.

- 10    13. A door lock device according to claim 12, wherein the acting portion includes the first flange.

14. A door lock device according to claim 13, wherein the spring is flexibly moved with respect to a vicinity of the engaging pin of the open link whereby the lock lever is moved to the unlocked position.

15